

Continuous Fucker-Type Heating Furnace With Full
Automatic Control and Ceramic Skid Rails, by
F. Fichter.

/nl LX XVIII,

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British Iron and
Steel Ind 1023
(13)

Sci - Engr
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Study of Oils and Emulsions for Lubrication in
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With Commercial Rolling Oils Under Various Con-
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by. W. Lueg, P. Funke.

GERMAN. Ber. Stahl und Eisen, Vol LXVIII, No
6, 1958, pp 333-343.

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Sci - Fuels,

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Sci - Min/Met
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Practical Experiences of Pushing-in Steel Bars, by
Wilhelm Pateisky, Kurt Giesecke, 12 p.

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SLA 59-20712

Sci
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Investigations on the Effect of the Rolling
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Scale and Behaviour in Pickling, UBCL
by W. Dahl, W. Linag.

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pp 368-377.

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(16.10s.Od.)

Sci-Min/Met
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Time Studies on A Blooming-Slabbing Mill,
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GERMAN, per, Stahl u Eisen, 3 Apr 1958,
pp 397-406.

*U.S.C. No. 7
and Steel Inst
Co-op Tr Sch
Tr 931*

NSB
ESur Germany
Econ -
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SLH 61-18360

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Operational Results When Blowing Basic Bessemer
Melts Using the IRSID Opacimeter, by Vom Ende,
Mahn. UNCLASSIFIED

GERMAN, per, Stahl u Eisen, 3 Apr 1958, pp 412-418.

Vol 15, No 4

Co-op Tr Scheme
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Sci - Eng, instruments S.I.A. 61-18641
May 58

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Cermets From Aluminum Oxide and Iron or Iron Alloys,
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XOFORH

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CIA/FDD XX-617

Sci - Min/act
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HB 4200

USIB INTERNAL USE ONLY

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Movement of Hydrogen in Iron Alloys, by
M. G. Frohberg.
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*NBS TT 70-57523

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Planning of the Handling of Bulk Materials in the
Ironworks, by V. von Branden, P. W. Griess.

UNCLASSIFIED

GERMAN, per, Stahl u Eisen, Vol LXXVIII, No 4,
1958, pp 465-475.

Edu - Germany
Econ
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British Iron and
Steel Ind 965
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SLH 61-18432

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Handling Plants and Storage Depots for Ore &
on Its Way to the Harbour, by K. Rosenbaum.
UNCLASSIFIED

GERMAN, per, Stahl u Eisen, No 8, 1958,
pp 475-483.

6.11.11-186.3

British Iron and
Steel Ind 966
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EEur - Germany
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Benesovsky, F. and Hotop, W.

THE EFFECT OF BORON ON LIQUID-PHASE FORMATION IN SINTERED STEEL, ESPECIALLY 18Cr-8Ni TYPES. 23 May 58 [11p. 12 refs.
Order from SLA \$1.60

61-18390

61-18390
I. Benesovsky, F.
II. Hotop, W.

Trans. of Sahl und Eisen (West Germany) 1958, v. 78,
no. 3, p. 149-152.

DESCRIPTORS: *Steel, *Boron alloys, Nickel alloys,
Chromium alloys, Sintering, Tensile properties,
Hardness, Density, Microstructure, *Powder metallurgy,
*Corrosion-resistant alloys.

By additions of a low melting Ni-Cr-B alloy with about
4.2% B, 18% Cr and 72% Ni, acting as liquid phase during sintering, it has been found possible to produce
from commercial iron powders, sintered alloy steels
(Metallurgy--Ferrous Metals, TT, v. 8, no. 12)

(over)

Office of Technical Services

PB-

General Rules (1956) for Cost Accounting in the
Iron and Steel Industry and Their ~~Some~~ Introduction,
by Carl-Ernst Schulz.

GERMAN, por, Stahl und Eisen, Vol LXVIII, No 8,
1958, pp 509-515.

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Sci - H/R
Aug 63

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Effect of Partial Replacement of Coke by Gasoline as Fuel in Sintering Machines, by H. Rausn, K. Meyer.

GERMAN, per, Stahl u Eisen, Vol LXXVIII, No 9,
1958, pp 600-605.

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BB 4680

Sci & Fuels

Jan 60

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Experimental Basic Converter With Continuous
Bath Temperature Measurement and End Point
Determination, by W. A. Fischer, H. Wahlster.
(U)(CLASSIFIED)

10
GERMANY, per, Stahl u Eisen, No 5, 1958,
pp 645-651.

British Iron and
Steel 55: 976 76, 138
(16.5.0)

Sci - Min/Met

Two Multiple Dan Turbine Assemblies at for a
Belgian Ironworks, by L. Jussette. UNCLASSIFIED
Vol LXVIII,
CIRCA, 1910, Stahl u Eisen, No 10, pp 653-555.
Printed
British Steel and
Steel Ins 975
(Lb.15.0)

Ref - Knopf
207 58

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Influence of Design and Method of Operation of
Pusher-Type Furnaces on the Surface Condition of
Hot Material, by B. von Sothen
GERMAN, per, Stahl Eisen., Vol 78, 29 May 1958,
pp 733-736
BISI 5556

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The Influence of Annealing on the Precipitation of
Aluminium Nitride and the Mechanical Properties
of Non-Alloyed Steels, by P. Werthebeck, H. Hoff.
UMCL

GERMAN, per, Stahl u Eisen, 29 May 1958,
pp 736-743.

British Iron and Steel Ind 1031
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Sci - Min/Met
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Hydrogen in Steel, by H. Neuhaus.
GERMAN, per. Stahl und Eisen, No 78, 1958,
pp 750-753.
*NBS TT 70-57522

Sci-Mat
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First Operating Results of the Rebuilt Krupp-Renn
Plant at Salzgitter-Watenstedt, by Fastje.

GERMAN, per, Stahl u Eisen, No 12, 1958, pp
& 784-791.

*Henry Brutcher

WEur - Germany
Econ

Aug 58

The Dust Produced During Blowing in the
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When Using Oxygen-Enriched Air, by Von Bogdandy,
Fautke. UNCLASSIFIED

GERMAN, per, Stahl u Eisen, 12 Jun 1958, pp
792-798. Vol 15, No 12.

British Iron and
Steel Ind 993

Sci - Min/Met
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CIA 61-1844/
CIA 61-1847

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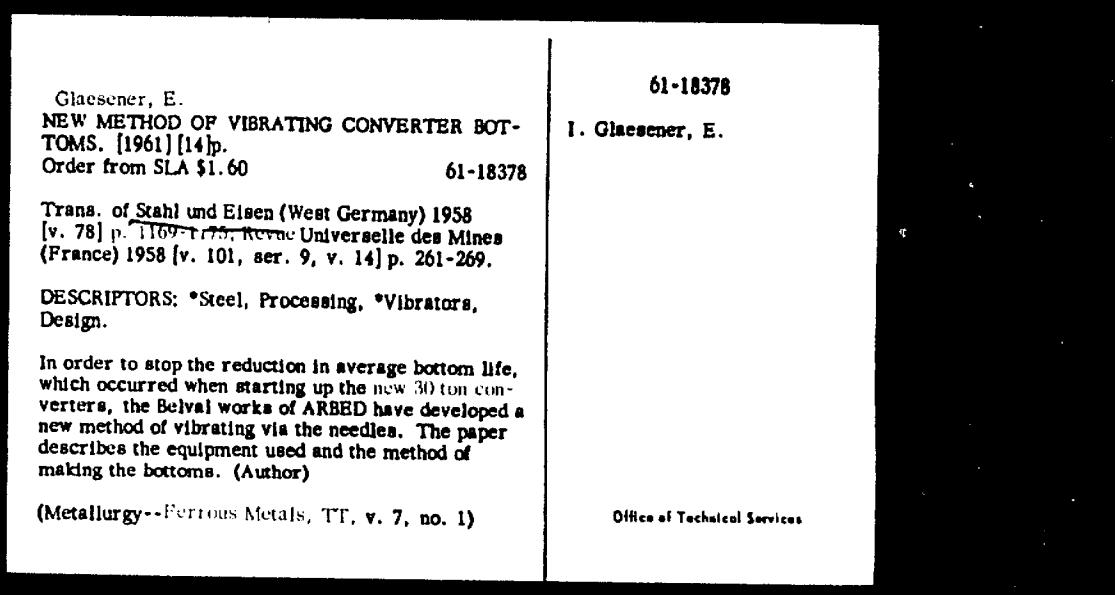
Optical Method of Determining the Course of
Temperatures When Refining Steel in the Converter,
by Holler, Smit. UNCLASSIFIED

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British Iron and
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Sci - Min/Met
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Fischer, W. A. and Wahlster, M.
EXPERIMENTAL BASIC CONVERTER WITH CON-
TINUOUS BATH TEMPERATURE MEASUREMENT
AND END POINT DETERMINATION. Rept. no. 644 of
the Steelworks Committee of Verein [Deutscher]
Eisenhüttenleute. [1961] [19]p. 23 refs.
Order from SLA \$1.60

61-18446

Trans. of Stahl und Eisen (West Germany) 1958, v. 78,
no. 10, p. 646-654 (Max Planck [Institut für Eisen-
forschung] (West Germany). Communication 764).

DESCRIPTORS: *Steel, Processing, Blast furnaces,
Operation, Temperature, Oxygen, Carbon, Phosphorus,
Manganese, Silicon, Nitrogen, Metallurgy.

The development of an experimental converter for
250 kg iron charge is described. It is shown that the
course of the metallurgical reactions, both for air
blowing and for blowing with oxygen enriched blast,
(Metallurgy--Ferrous Metals, TT, v. 7, no. 1) (over)

61-18446
I. Fischer, W. A.
II. Wahlster, M.
III. Title: Verein...
IV. Max... Communication 764

Office of Technical Services

The Use of Models for Studying Flow in Open
Hearth Furnace Checkers, by M. Hansen.
UNCLASSIFIED

GERMAN, per, Stahl u Eisen, ¹² 1958,
pp 804-812.

British Iron and
Steel Ind 1030
(L5)

Sci - Engr
Nov 58

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The New Hot Strip Mill of Borsig A.G., by
G. Stenger, O. Dahlke. URGED CLASSIFIED

GERMAN, per, Stahl u Eisen, ~~Nov~~, 1958,
pp 812-820.

British Iron and
Steel Ind 992
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No 14, 1958, pp 937-947.

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Sci - Engr
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The Phoenix Oxygen-Lance (PL) Process, by H. Th.
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Brutcher Tr 4270
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Chem
Sci - Met
Sep 58 *(Per 100 kg of Coal 1009) 72,575*

Study of the Effect of Different Working Conditions
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the Mechanical Properties of Strip Steel, by J. C.
Brockhaus, et al. UNCL

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British Iron and Steel
Ind 1063

Sci - Min/Met
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Tests Carried Out on the Plant for Smelting Conakry
Ore. I. Smelting Conakry Ore in the Blast
Furnace, by W. Wolf, et al. UNCL

GERMAN, per, Stahl u Eisen, 24 Jul 1958, pp 1020-
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British Iron and
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Sci - Min/Met
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Experience in the Production and (Hot) Working
of Light-Section Continuous Cast Steel, by F.
Leitner, F. Schmidt.

GERMAN, per, Stahl Und Eisen, Vol LXVIII, No 15,
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Trends in the Development of Automatization,
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BISI 1359
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Sci - Mngr
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Investigations on the Banded Structure in Plain
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Flochinger, A. Randak. UNCL

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pp 1041-1058.

British Iron and
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Sci - Min/Met
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Tests Carried Out on the Plant for Smelting
Cocakry Ore. II. The Extraction of Chromium
From the Pig Iron by Refining With Pure Oxygen
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GERMAN, per, Stahl u Eisen, 7 Aug 1958, pp 1100-
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British Iron and
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sci - Min/Met
Feb 59

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A New Oil Firing System for Open-Hearth
Furnaces, by W. Schleicher, K. Bolag. UMCL

GERMANY, per, Stahl u Eisen, 7 Aug 1958,
pp 1108-1109.

British Iron and
Steel Ind 1069

Sci - Engr
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Universal and Universal Jointed Spindles,
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SNCI.

BRDAd, ser, Stahl u Eisen, 7 Aug 1958,
pp 1110-1119. _____

British Iron and
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Sci - Eng/
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Strength Properties of Tempered Hotwork Steels at
Elevated Temperatures, by Karl Langardt, Otto
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1958, pp 1119-1126.

SLA 59-10161

Sci - Min/Met
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Vol 2, No 1

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Organization of Supplies and Production and Its
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British Iron and
Steel Ind 1170
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Chlorination Of Ore Fines During Sintering, by
H. Neuhaus and H. Schenck.

GERMAN, per, Stahl Und Eisen, 1958, pp 1162-1170.

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Possible Uses of Blast Furnace Gas for the
Synthetic Production of Hydrocarbons, by H.
Koelbel. UNCL

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pp 1165-1169. Vol 78.

British Iron and
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Sci - Chem SL# 61-1837
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Atmospheric Corrosion Tests on a Number
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Coatings, by G. Becker. UNCL

GERMAN, perf., Stahl u Eisen, 21 Aug 1958,
pp 1186-1191.

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Sci - Min/Met
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The Water Supply System of the Hoesch-Westfalenhuette
A.G., Dortmund, by M. Zur. UNCL

GERMAN, per, Stahl u Eisen, 21 Aug 1958, pp 1191-
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Steel Ind 1071
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EKur - Germany
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May 59

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The Physical Properties of Coke and Their
Relationship to Blast Furnace Working, by W.
Himzel.

GERMAN, per, Stahl und Eisen, Vol LXXVIII,
4 Sep 1958, pp 1225-1229.

BISI 1287

SIA 59-17642

Sci - Min/Met
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Changes in the Structure of Austenite Steels in
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GERMANY, par, Stahl u Eisen, 4 Sep 1958, pp 1251-
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British Iron and
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SLA 61-12-P-1

Sci - Min/Met
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Observations on the Bauschinger Effect on Soft and Medium-Hard Steels, by H. Hoff, G. Fischer. UICL

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British Iron and Steel Ind 1093
(L5 15 0)

Sci - Min/Met
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Investigations Into Vibration in the Vicinity
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pp 1320-1326.

OTS 61-30072

British Iron and Steel Bd 1139

(L4)

Sci - Min/Met
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The Appropriate Location and Design of Driver
Cabs and Control Apparatus in Cranes, by F. E.
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British Iron and Steel Ind 1108
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Sci - Engr
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Behavior of Steels With 11-20 o/o Chromium After
Long-Time Heating in 475° Embrittlement Range, by
W Ewald Baerlecken, Heinz Fabritius, 19 pp.

GERMAN, per, Stahl und Eisen, Vol LXXVIII, 1958,
pp 1389-1395. 9093453

ABC UCRL Tr-780(L)

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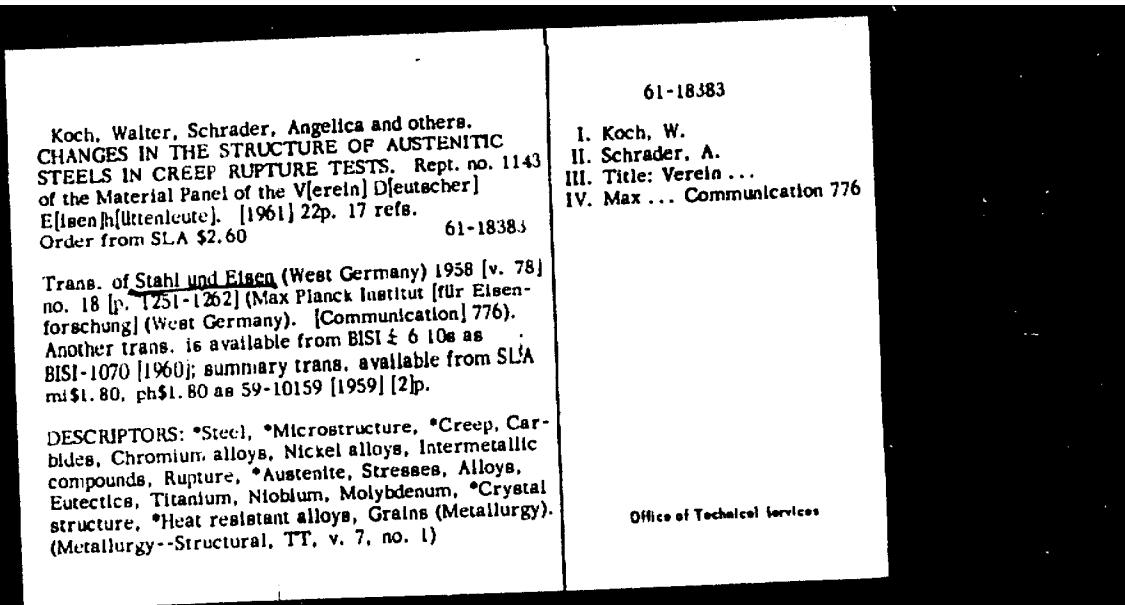
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Heavily Coated, Hard Drawn Wires of Rinned Low
Carbon Steel, by D. Horstmann. UNCL

GERMAN, per, Stahl u Eisen, 16 Oct 1958,
pp 1456-1462.

SBH 61-1677
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Sci - Min/Mkt
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Stress Corrosion and Creep of High Strength Steel
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10 p.

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No 21, pp 1472-1475.

SLA 59-20849

Sci
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Vol 3, No 1

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and conditions and requirements in the construction of
Iron Ores, by G. Heynert, et al. UNCOL

GERMAN, per, Stahl u Eisen, 30 Oct 1970,
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British Iron and
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Sci - Min/Met
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Technical Steel Problems Encountered in the Production
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Rehderer, R. Hammer. UNCL

REHDERER, H., Stahl u Eisen, 39 Oct 1958,
pp 1509-1513.

British Iron and
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AFI 99

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Amount and Nature of the Oxide Inclusions
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Born, H. Wittetruck.

GERMAN, per, Stahl und Eisen, Vol LXXVIII,
No 22, 1958, pp 1514-1525.

HB 4648

Sci - Engr

Nov 59

10/227

Armenia, area for the construction of a Plate
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Gelsen, zw. Stahl u Eisen, 30 Oct 1900.
pp 1125-1135.

British Iron and
Steel Ind 1142
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Sci - Eng
Apr 59

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Assessing the Design and Operation of a Heavy
Plate Rolling Mill on the Basis of Operational
Experience, by F. Dostal. UNCLASSIFIED

GERMAN, DDR, Stahl u Eisen, 30 Oct 1958, pp 1536-
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British Iron and
Steel Ind 1143

Sci + Engineering
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New Continuous Small Section Rolling Mill Train
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GERMAN, per, Stahl u Eisen, 30 Oct 1958, pp 1546-1555.

MT 2-40

*British Iron and
Steel Ind 1114

Sci - Engr
Feb 59

~~either~~ ^{140 ft} ~~feet~~ to be built
~~either iron and steel~~
~~either British or "metal feet"~~
~~etc,~~

Effects of Heat on Tool Steels During Hot Upsetting and
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GERMAN, per, Stahl und Eisen, x Vol. LXXVIII, 1958,
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BISI 3467

Sci - M/M
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Cutting Power of Cast and Hot-Worked High-Speed Steel Tools and their Metallurgy,
by K. A. Krekeler.
GERMAN, per, Stahl und Eisen, 1958,
Vol. 78, Oct 30, 1575-1585
*BISI 3986

Sci/Met & Mat
Mar 65

The Processing of Titaniferous Iron Ores in
the Blast Furnace, by E. Wendel.

GERMAN, per, Stahl und Eisen, Vol LXXVIII,
No 22, 1959, pp 1603-1605.

Broken Hill Prop Co Ltd
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Sci - Engr

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Oberhausen Plate Mill: Structural Features of
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GERMAN, per, Stahl u Eisen, 30 Oct 1959,
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EEur - East Germany
Econ
Sci - Engr
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S.H. 61-1231
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Discussions for the Rolling of Alloy Steels,
by H. Mueller. UNCL

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(L2 15s. Od.)

Sci - Engr
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(14)

Sci - Min/Met
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Chlorination of Ore Fines During Sintering,
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GERMAN, per, Stahl Eisen, Vol 78, 13 Nov
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EE-Germany
Sci/MEM
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GERMANY, por, Stahl u Eisen, 13 Nov 1958, pp 1670-
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British Iron and
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Sci - Engr
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Practical Experiences With Oil-Heated Continuous
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British Iron and Steel Ind 1172

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Sci - Engr
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Recent Investigations on the Relation Between
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Sci - Engr
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The Final Analysis of Bath and Slag in the
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UMCL

GERMAN, per, Stahl u Eisen, 27 Nov 1958,
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British Iron and Steel Ind 1167

Sci - Min/Met
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Case Hardening of Free-Cutting Steels, by
Alexander Schepers, W. Bartholome, 11 p.

GERMAN, per, Stahl und Eisen, 1958, Vol LXXVIII,
No 24, pp 1745-1748.

SLA 59-20050

Sci
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Vol 2, NO 11

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Study of the Effect of the Rolling Condition
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CARNEGIE, PA, Steel & Eisen, 21 Dec 1953.
PP 2793-4758.

UTS 61-30620
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vol - Mar/1953
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Effect of ~~small~~ Carbon Content, Cold Working and Heat-Treatment on the Properties of Aluminium Killed Deep Drawing Steel Strip, by K. G. Schmitt-Thomas. UCL

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OTS 61-2667

British Iron and
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Sci - Min/Mat
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Microstructure and Effect of Aluminization in an
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CEGBM, Ber., Stahl u Eisen, 11 Dec 1923,
pp 1808-1811.

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Sci - Min/Met
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The Hydraulic 25-Ton Bar Drawing Bench of the Max-
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GERMAN, per, Stahl und Eisen, 11 Dec 1958,
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BISI 1476

62 - 1476

Sci - Engr

Aug 60

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GERMAN, per, Stahl und Eisen, Vol LXXVIII, No 25, 1938, pp 1032-1034.

SIA 59-15066

Sci
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Vol 2, No 5

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Bearing Unit With Neck Back and Tapered Roll-Neck,
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GERMAN, per, Stahl u Eisen, Dec 1958, pp 1853-
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British Iron and
Steel Ind 1209
(14)

Sci - Eng
May 59

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Roll-Neck Bearings With Running Surfaces on the Roll
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UNCL

GERMAN, per, Stahl u Eisen, Dec 1958, pp 1861-
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SLA 61-30797
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Steel Ind 1210
(13)

Sci - Engr
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Roll-Neck Bearings for Hydrodynamic Lubrication, by
J. Frechling. UNCLASSIFIED

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British Iron and
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Sci - Engineering
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